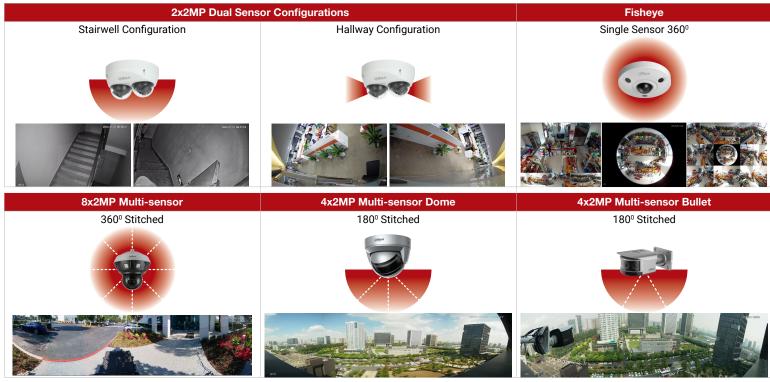


Dahua panoramic cameras provide 180° or 360° views that provide wide-area video surveillance for increased situational awareness. Fisheye and Multi-sensor cameras replace multiple single-sensor cameras providing easier installation and a higher return on investment. This Quick Guide presents the specifications for all components necessary to create your own network panoramic surveillance system from Dahua.



## **Unstitched Multi-flex Configurations**

180° View



Position all four sensors toward the front of the track for a 180° overview. Best when required to mount where a lens may be obstructed.

270° View



Position three of the sensors toward the front of the track and one to the back for a 270° overview. Best when required to mount where a lens may be obstructed.

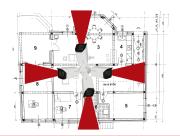
360° View



Position sensors evenly around track for a full 360° overview. Best for applications that will be mounted in an open area without obstruction.

The IR LEDS and lenses are fixed to the same bracket, so when the lenses move so do the LEDs.

## Go from this:







## To this:

- Ouicker installation
- · Fewer cameras and cable
- · One VMS license
- · Lower total cost of ownership

# **IP Panoramic Cameras**



Wiz Mind

## DH-IPC-EBW81242N N68BR4V N55CS5 12MP 360° IR Fisheve 6MP 360° IR Fisheve 5MP 360° Panoramic Fisheye

- 1/1.7-in. STARVIS™ CMOS
- 12MP at 30 fps 1.98 mm Fixed Lens
- Multiple Dewarping Modes
- Triple-stream Encoding
  Smart H.265+, H.265, Smart H.264+, H.264
- Built-in Microphone
- Digital Wide Dynamic Range
- Max IR Distance 10 m (33 ft)
- Analytics+ (People Counting, Queue Managment) IVS
- IP67 and IK10
- Best for lowlight small applications where high resolution details are required

- 1/1.8-in. STARVIS™ CMOS
- 6MP at 30 fps
- 1.3 mm Fixed Lens
- 0.005 lux Color
- Multiple Dewarping Modes
- Triple-stream Encoding Smart H.265+, H.265, Smart H.264+, H.264
- Digital Wide Dynamic Range
- Max IR Distance 10 m (33 ft)
  IVS: Motion, Tripwire, Intrusion, Scene Change, Abandoned/ Missing Object, Heat Map IP67 and IK10
- Best for lowlight small applications that require tight intergration with numerous VMS platforms

- 1/2.7-in. CMOS
- 5MP at 30 fps 1.4 mm Fixed Lens
- Built-in Microphone
- Multiple Dewarping Modes
- Smart H.265+, H.265, Smart H.264+, H.264
- True Wide Dynamic Range (120 dB)
- Analytics+ (People Counting) IVS (Tripwire, Intrusion, Abandoned/Missing Object, Heatmap)
- Best for well lit small applications

## N55CT5

## Wiz Mind

## DH-IPC-HDBW4231FN-E2-M



## DH-IPC-PFW8840N-A180



## 5MP 360° Panoramic Fisheve

## **Pro**Series

- 1/2.7-in. 5MP STARVIS™ CMOS
- 5MP at 30 fps
- 1.4 mm Fixed Lens
- Built-in Microphone
- Multiple Dewarping Modes
- Triple-stream Encoding Smart H.265+, H.265, Smart H.264+, H.264
- True Wide Dynamic Range (120 dB)
- Maximum IR Distance 10 m (33 ft)
- Analytics+ (People Counting) IVS (Tripwire, Intrusion, Abandoned/Missing Object, Heat Map)
  Best for indoor lowlight small applications

- Two (2) Independent 1/2.8-in. STARVIS™ CMOS
- 2MP at 30 fps
- 2.8 mm Lenses
- Basic Starlight Technology 0.009 lux Color

2 x 2MP IR Dual-sensor Dome Camera

- Dual-stream Encoding per Sensor H.265, H.264, MJPEG (Sub stream only)
- True Wide Dynamic Range (120 dB)
- Max IR Distance 20 m (66 ft)
- Intelligent Video System: Motion, Tripwire, Intrusion, Scene Change, Abandoned/Missing Object, Facial Detection
- IP67 and IK10
- Best for Hallways and corridors

## 2MP IR 180° Panoramic Bullet

- Four (4) 1/2.8-in. CMOS Sensors
- 4096 x 1800 at 30 fps
- 2.8 mm Lenses

**Ultra**Series

- Starlight+ Technology
- Analytics+: (Vehicle Density, Crowd Density) IVS (Tripwire, Intrusion) Triple-stream Encoding
- Smart H.265+, H.265, Smart H.264+, H.264, MJPEG
- Digital Wide Dynamic Range
- Max IR Distance 30 m (98 ft) IP67 and IK10
- Best for wide area surveillance

## DH-IPC-PDBW8840N-A180

# Wiz Mind

# DH-PSDW81642M-A360





## DH-IPC-PDBW82041N-B360

Viz Mind

## 2MP IR 180° Panoramic Dome

- **Ultra**Series Four (4) 1/2.8-in. CMOS Sensors
- 4096 x 1800 at 30 fps
- 180° Panoramic View 2.8 mm Lenses
- Starlight+ Technology
- Triple-stream Encoding
- Smart H.265+, H.265, Smart H.264+, H.264. MJPEG
- Digital Wide Dynamic Range

- Max IR Distance 30 m (98 ft)
  Analytics+: (Vehicle Density, Crowd Density) IVS (Tripwire, Intrusion)
- IP67 and IK10
- · Best for wide area surveillance

## 8 x 2MP Panoramic + 4MP PTZ

- Panoramic Camera: Eight (8) 1/1.8-in. 2MP CMOS Sensors with Eight (8) 5 mm Lenses for a 360° Panoramic View
- PTZ Camera: One (1) 1/1.8-in 4MP CMOS Sensor with One (1) 5.6 mm to 223 mm Lens
- 8192 x 1800 at 30 fps (Panoramic) plus 2560 x 1440 at 30 fps (PTZ)
- Starlight Technology 0.008 lux Color
- Triple-stream Encoding
- Max IR Distance 400 m (1312.34 ft) PTZ with Zoom Priority for Optimal IR Coverage at Any Zoom Level
- Intelligent Video System (IVS) with Smart Track, Crowd and Vehicle Density
- Best for wide area surveillance

# DH-IPC-PDBW5831N-B360



## Multi-Flex Quad-sensor Dome Camera

- Four (4) 1/2.8-in. 2MP STARVIS™ CMOS Sensors
- Four (4) 2.7 mm to 12 mm Motorized Zoom Lenses
- Dual-stream Encoding, per sensor
- 1920 x 1080 at 30 fps per Sensor
- Ultra-wide Dynamic Range (140 dB, channel 1 only) Intelligent Video System: Motion, Trip-
- wire, Intrusion, Scene Change, Abandoned/Missing Object
- Sensors Independently Positionable and Configurable Enhanced Starlight Technology 0.005
- lux Color Smart H.265+, H.265, Smart H.264+, H.264, H.264B, H.264H, MJPEG (sub
- Max IR Distance 30 m (98 ft)
- IP67 and IK10
- Best for medium to large intersecting areas for wide coverage



## Multi-Flex Quad-sensor Dome Camera

- Four (4) 1/2.7-in. 5MP CMOS Sensors Four (4) 2.8 mm to 12 mm Motorized Zoom Lenses
- Triple-stream Encoding per sensor

2592(H) x 1944(V), per Sensor

- FlexStream Consolidates Video from All Channels into a Single Stream
- Wide Dynamic Range on all Channels Intelligent Video System: Abandoned/
- Missina Object Analytics+: Perimeter Protection. Face
- Detection Sensors Independently Positionable and
- Configurable Enhanced Starlight Technology 0.005
- lux Color Smart H.265+, H.265, Smart H.264+, H.264, H.264B, H.264H, MJPEG (sub
- stream) Max IR Distance 30 m (98 ft)
- IP67 and IK10
- Best for medium to large intersecting areas for wide coverage

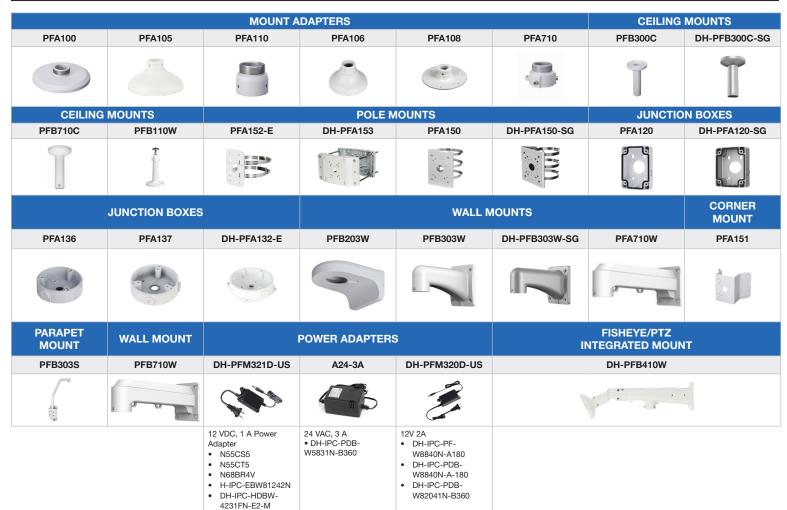
# **IP Recorders & Accessories**



## **DISPLAY NETWORK VIDEO RECORDERS** DHL49 DHI-NVR5216-16P-I 4TB N54B3P N54A4P 4K Wiz Mind 49-in. Full-HD LCD Monitor 16CH ePoE NVR 16CH 4K ePoE NVR 24CH 4K PoE NVR · High Fidelity Digital Processing, Brilliant and Vivid Video Analytics+ NVR, 320Mbps Smart H.265+, Smart H.264+ Decoding Smart H.265+, Smart H.264+ Decoding Built-in 3D COMB Filter and 3D Noise 160Mbps when Analytics+ function is Maximum 320 Mbps Incoming Maximum 320 Mbps Incoming enabled, (16 channel IP Video Inputs) Bandwidth Bandwidth Reduction Supports HDMI, DVI, VGA, CVBS Up to 12MP Resolution Preview and Up to 12MP Resolution Preview and 16 Ports PoE, 8 ports ePoE 16CH IP cameras: 2CH @12MP, 4CH @ Inputs, Supports Video Loop Plavback Playback Infrared, RS232 Double-mode, Supports 8MP and 16CH @ 2MP 4 SATA III Ports, up to 10TB per port Supports IPC UPnP 16 PoE Ports (8 of which are ePoE Ports) 24 PoE/PoE+ Ports Remote PC Control Includes perimeter protection, Analytics+ Brightness Smart Detection and Powersearch and license plate recognition with 4CH@8MP. 16CH@1080P HDMI/VGA Simultaneous Video Output 120 W Total Rated PoE Power, 25.5 W 220 W Total Rated PoE Power, 25.5 W compatible LPR cameras saving Mode Tamper-proof Metal Housing, No 4TB included maximum per port maximum per port IVS Recording on all IP Channels 3D Intelligent Positioning (Dahua Professional Thermal Design to Extend Equipment Lifespan IVS Recording on all IP Channels Built-in Power, Low-energy Consumption, Ultra-quiet **SWITCHES MANAGEMENT SOFTWARE** DH-PFS3010-8ET-96 DH-PFS4218-16ET-240 **SmartPSS** DSS \*\*\*\* 8-port Fast Ethernet PoE Switch 16-port Managed Gigabit Switch **Smart Professional Surveillance System Digital Surveillance Management Center** · Layer 2 Commercial Switch Layer 2 Managed PoE Switch Efficient Device Management · Complete Organization, Device, and Supports the IEEE802.3af, IEEE802.3at, Long-distance PoE (LD PoE) Transmits Manage up to 64 Devices over a **Event Centralized Management** Power and Data 250 m (820 ft) and Hi-PoE Standards Maximum of 256 Channels Manages up to 20,000 channels with Conforms to IEEE802.3, IEEE802.3u and Two (2) 1000 Base-X (Combo Port) Supports H.265 and H.264 Dual Video DSS Pro. IFFF802.3X Two (2) 10/100/1000 Base-T (Combo Compression Codecs Supports H.265 and H.264 Dual Video Conforms to IEEE802.3af and Live Video Monitoring and Playback Compression Codecs EEE803.3at 240 W PoE Budget Configure Video Wall Layout and Support for Video Wall Configuration and Two (2) 10/100/1000 Mbps Uplink Ports 250 m (820 ft ) PoE Transmission Display Scheme Configure NVR Recording Supports Hi-PoE (60 W) PoE Management, PoE Setting, Event Live Video Monitoring and Playback MAC Auto-learning and Aging; 16K MAC Statistics, Green PoE PTZ Camera Control PTZ Camera Control and Smart Track Address Capacity Supports Hi-PoE (60 W) Intelligent Video System (IVS) with Intelligent Video System (IVS) with MDI/MDIX Self-adaptation High Lightning Protection Design People Counting and Heat Map Business Analysis Non-blocking Video Transmission Metal Enclosure **MOBILE APPLICATION STORAGE DMSS** PFM113 PFM114 STx000VX000X 128 GB Micro SD Card 256 GB Micro SD Card **Skyhawk Series Hard Drives** • Designed for 24/7 Surveillance-optimized · IOS and Android · All IP cameras on this guide offer an SD · All IP cameras on this guide offer an SD Relay Out Functionality Card Slot up to 128 GB Card Slot up to 256 GB Applications MJPEG Video Decoding Cost-effective TLC Storage Medium Cost-effective TLC Storage Medium Firmware Optimized for Continuous Multi-language Interface (Chinese, High-transmission Speed Recording; 90% Write and 10% Read High-transmission Speed Dutch, English, French, German, Italian, Waterproof, Shockproof, and X-ray Proof Waterproof, Shockproof, and X-ray Proof Engineered for Workloads up to 180 TB/ Portuguese, Russian, and Spanish) High and Low Temperature Resistance High and Low Temperature Resistance year Capacity Up to 10 TB, Supports 64 Cameras per Drive Low Power Consumption and Startup Current Tarnish-resistant Components to Minimize Environmental Effects

# **Accessories**





| MOUNTING APPLICATIONS                              |                           |                              |  |                                     |                              |                  |
|--|---------------------------|------------------------------|--|-------------------------------------|------------------------------|------------------|
| MODEL  | Wall Mount                | Ceiling Mount                | Pole Mount                                 | Corner Mount                        | Parapet Mount                | Junction<br>Box  |
| N68BR4V  | PFB302S + PFA100          | PFA100 + PFB300C             | PFA100 + PFB300C +<br>PFA150               | N/A                                 | N/A                          | N/A              |
| N55CS5   | PFB203W                   | PFB220C + PFA106             | PF302W + PFA152-E                          | N/A                                 | N/A                          | PFA136           |
| DH-IPC-EBW81242N                                   | PFB302S + PFA100          | PFA100 + PFB300C             | PFA100 + PFB300C +<br>PFA150               | N/A                                 | N/A                          | DH-<br>PFA132-E  |
| N55CT5   | PFB203W                   | PFB110W                      | PFB203W + PFA152-E                         | N/A                                 | N/A                          |                  |
| DH-IPC-PFW8840N-A180                               | DH-PFA120-SG              | N/A                          | DH-PFA120-SG + DH-<br>PFA150-SG            | DH-PFA120-SG + PFA151               | N/A                          | DH-PFA120-<br>SG |
| DH-IPC-PDBW8840N-A180 *PFA111 included with camera | PFA111* + DH-PFB303W-SG   | PFA111* + DH-PF-<br>B300C-SG | PFA111* + DH-PFB303W-<br>SG + DH-PFA150-SG | PFA111* + DH-PFB303W-SG +<br>PFA151 | PFA111* + PFB303S            | DH-PFA120-<br>SG |
| DH-PSDW81642M-A360                                 | PFB710W                   | PFB710C                      | PFB710W + DH-PFA153                        | N/A                                 | N/A                          | N/A              |
| DH-IPC-HDBW4231FN-E2-M                             | PFB203W                   | PFA137                       | PFB203W + PFA152-E                         | N/A                                 | N/A                          | N/A              |
| DH-IPC-PDBW5831N-B360<br>DH-IPC-PDBW82041N-B360    | PFA108 + PFA111 + PFB303W | PFA108 + PFA111 +<br>PFB300C | PFA108 + PFA111 + PFA150                   | PFA108 + PFA111 + PFA151            | PFA108 + PFA111 +<br>PFB303S | PFA120           |

<sup>\*</sup> Accessory included with the camera.

<sup>†</sup> Accessory included with camera, but not available for individual purchase.